Notice of Allowability	Application No.	Applicant(s)
	10/679,757	YAMADA, KENJI
	Examiner	Art Unit
	N. Drew Richards	2815
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 10/6/03.		
2. X The allowed claim(s) is/are <u>1-8</u> .		
3. $igotimes$ The drawings filed on <u>06 October 2003</u> are accepted by the	e Examiner.	
 Acknowledgment is made of a claim for foreign priority ur a)	been received. been received in Application No. <u>1</u>	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINERes reason(s) why the oath or declara	A'S AMENDMENT or NOTICE OF ation is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review(PTO s Amendment / Comment or in the C s84(c)) should be written on the drawi	Office action of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)	<u> </u>	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. Examiner's Amend	ment/Comment
1. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. ☐ Other	om Thomas
	SUPER"	Attiaces a

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-8 allowed.

2. The following is an examiner's statement of reasons for allowance: Prior art of record fails to teach, disclose, or suggest, either alone or in combination, a non-volatile semiconductor memory device including a third impurity diffusion layer in a first memory element and a third impurity diffusion layer in a second memory element, where the third impurity diffusion layers include a channel region and where either:

- the impurity concentration of the third impurity diffusion layer in the first memory element and the impurity concentration of the third diffusion layer in the second memory element are different from each other as recited in claim 1; or
- a threshold voltage of the first memory element and a threshold voltage of the second memory element are set at different values as recited in claim 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sandhu et al. (U.S. Patent No. 6323085 B1), Furuhata (U.S.

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Patent No. 6337250 B2), Lee (U.S. Patent No. 6486508 B1), Kurooka et al. (U.S. Patent No. 6184088 B1), Leu (U.S. Patent No. 6174771 B1), Chen (U.S. Patent No. 6171908 B1), Sung et al. (U.S. Patent No. 6194269 B1), Hsieh et al. (U.S. Patent No. 6133097), Ogura et al. (U.S. Patent No. 6399441 B2).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Drew Richards whose telephone number is (571) 272-1736. The examiner can normally be reached on Monday-Friday 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> TOM THOMAS SUPERVISORY PATENT EXAMINER

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